

RAW SEQUENCE LISTING

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Application Serial Number: 10/595,495
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PATENT APPLICATION: US/10/595,495

TIME: 09:59:40

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3 <110> APPLICANT: Mermod, Nicolas
4      Puttini, Stefania
5      Saugy, Damien
6      Girod, Pierre Alain
7      Bucher, Philipp
8      Nguyen, Duc-Quang
9      Calabrese, David
11 <120> TITLE OF INVENTION: HIGH EFFICIENCY GENE TRANSFER AND EXPRESSION IN MAMMALIAN
CELLS
12      BY A MULTIPLE TRANSFECTION PROCEDURE OF MAR SEQUENCES
14 <130> FILE REFERENCE: 3024-119
16 <140> CURRENT APPLICATION NUMBER: 10/595,495
17 <141> CURRENT FILING DATE: 2006-04-24
19 <150> PRIOR APPLICATION NUMBER: PCT/EP2004/011974
20 <151> PRIOR FILING DATE: 2004-10-22
22 <150> PRIOR APPLICATION NUMBER: EP04002722.9
23 <151> PRIOR FILING DATE: 2004-02-06
25 <150> PRIOR APPLICATION NUMBER: US60/513,574
26 <151> PRIOR FILING DATE: 2003-10-24
28 <160> NUMBER OF SEQ ID NOS: 241
30 <170> SOFTWARE: PatentIn version 3.3
32 <210> SEQ ID NO: 1
33 <211> LENGTH: 320
34 <212> TYPE: DNA
35 <213> ORGANISM: Homo sapiens
38 <220> FEATURE:
39 <221> NAME/KEY: misc_binding
40 <222> LOCATION: (1)..(320)
41 <223> OTHER INFORMATION: MAR of human chromosome 1, nt from 36686 to 37008
43 <220> FEATURE:
44 <221> NAME/KEY: misc_binding
45 <222> LOCATION: (1)..(320)
46 <223> OTHER INFORMATION: MAR of human chromosome 1, genomic contig; 36686 to 37008
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53 taattatata ttacattata taatatataa taatattata taattatata ttacattata      180
55 taatatataa taatattata taataatata taattatata atatataata atattatata      240
57 atattatata atattatata atatataaat atataataat atatattata ttatataata      300
59 gtatataata ttatataata      320
62 <210> SEQ ID NO: 2
63 <211> LENGTH: 709
64 <212> TYPE: DNA
65 <213> ORGANISM: Homo sapiens

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68 <220> FEATURE:
69 <221> NAME/KEY: misc_binding
70 <222> LOCATION: (1)..(709)
71 <223> OTHER INFORMATION: MAR of human chromosome 1, nt from 142276 to 142984
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74 <221> NAME/KEY: misc_binding
75 <222> LOCATION: (1)..(709)
76 <223> OTHER INFORMATION: MAR of human chromosome 1, genomic contig; 142276 to 142984
78 <400> SEQUENCE: 2
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81 ttatatataa tatattttgt attatatata ttacaatata ttttgtatta tataatatat      120
83 aatacaatat ataatatatt gtattatata ttatataata caatatatta tatattgtat      180
85 tatatattat atataatact atataatata ttgtattata tattatatat aatactatat      240
87 aatatatttt attatatatt atatataata caatatataa tatattgtat tataatacaa      300
89 tgtattataa tgtattatat tgtattatat attatatata atacaatata taataatata      360
91 ttataatata taataataat ataataatata aataatatat attgtattat atattatata      420
93 atacaatata taatatattg tattatatat attttattac atataatata taatacatta      480
95 tataatatat tttgtattat atataatata ttttattatg tattatagat aatatatttt      540
97 attatatatt atataataa caatatataa tatattttgt attgtatata atatataata      600
99 caatatataa tatattgtat tatatataat attaatatat tttgtattat atatttatat      660
101 tttatattat aattatgttt tgcattatat atttcatatt atatatacc      709
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105 <211> LENGTH: 409
106 <212> TYPE: DNA
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112 <222> LOCATION: (1)..(409)
113 <223> OTHER INFORMATION: MAR of human chromosome 1, nt from 1368659 to 1369067
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117 <222> LOCATION: (1)..(409)
118 <223> OTHER INFORMATION: MAR of human chromosome 1, genomic contig; 1368659 to
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120 <400> SEQUENCE: 3
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125 atgcatatac attatgtata tatacataaa tacatatgca tatacattat gtatatatac      180
127 ataaatacat atgcatatac attatgtata tatacataaa tacatatgca tatacattat      240
129 gtatatatac ataaatacat atgcatatat tatatacata aattatatta tatacataat      300
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138 <212> TYPE: DNA
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145 <223> OTHER INFORMATION: MAR of human chromosome 1, genomic contig; 2839089 to
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152 tatgtatata tacacacata tgtatatatg tatatatgta tatatacaca catatgtata      180
154 tatgtatata tacacacata tgtatatatg tatatatgta tatatacaca catgtgtata      240
156 tatatatata catatgtata tatgtatata tacacacata tgtatatatg tgtatgtata      300
158 tatacacaca tatgtatata tacacacata tatgtatata tacacacata cttatatata      360
160 cacatatata tgtatatata cacatatgta taca                                     394
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164 <211> LENGTH: 832
165 <212> TYPE: DNA
166 <213> ORGANISM: Homo sapiens
169 <220> FEATURE:
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171 <222> LOCATION: (1)..(832)
172 <223> OTHER INFORMATION: MAR of human chromosome 1, genomic contig; 1452269 to
1453100
174 <400> SEQUENCE: 5
175 tatattacta tatatacaat atacatatta ctatatatac catgtattac tatatatatc      60
177 tactatatat attactatat atacaaaata tatattacta tatatacaat atacatatta      120
179 ctatatatac catatattac tatatatatc tactatatat attactatat atacaaaata      180
181 tatattacta tatatactat atattactgt atatacaata tatattacta tatatatact      240
183 atatattact atatatacac tatatattac tatatatata caatatatat attactatat      300
185 atacacaatg tatataacta tatatacaat atatattact atatatacta tatatattac      360
187 tatacatact atatattact ctatatatac aatatatata ttacaatata tactacatat      420
189 tactacatat actttatata ttactatata tactatatat tactgtatat acaatatata      480
191 ttactaaata tacacaatat atattactat atatacacia tatatatatt actatatata      540
193 cacattatat atgactatat atacacacta tatatattac tatatatata caatatataa      600
195 ctatatatac acagtataca tattactata tatacacaat atatatatta ctatatatac      660
197 actatatatt actatatata cacaatatat attactctat gtatacacta tatatattac      720
199 tatatatata gaatatatat aactatatat acactatatt actatatata ctatatatta      780
201 ctatatgtac tatatatatt actatatata ctatatatta ctatatatac ac               832
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205 <211> LENGTH: 350
206 <212> TYPE: DNA
207 <213> ORGANISM: Homo sapiens
210 <220> FEATURE:
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212 <222> LOCATION: (1)..(350)
213 <223> OTHER INFORMATION: MAR of human chromosome 1, genomic contig; 831495 to 831844
215 <400> SEQUENCE: 6
216 aatatataat atataaatat taatatgtat tatataaatat atattaatat attatattat      60
218 attactatat aaataatatt aatatattat attaaaatat taataaatat atcatattaa      120
220 atattatatt aattaaatat taataaatat attatattaa tatatttata tattaaacct      180
222 ataacatatg catatactta tttatatata acatgcatgt acttatttat atatacaata      240
224 tatatttata tattatataa tatattatat gtatttatat attatatatc atatattata      300
226 tgtatttata tattatatat catataatat atatatttat attatatata                  350
229 <210> SEQ ID NO: 7
230 <211> LENGTH: 386
231 <212> TYPE: DNA

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232 <213> ORGANISM: Homo sapiens
235 <220> FEATURE:
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237 <222> LOCATION: (1)..(386)
238 <223> OTHER INFORMATION: MAR of human chromosome 1, genomic contig; 1447225 to
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240 <400> SEQUENCE: 7
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243 aattttatatt aatttaatta tatatactat atagttatat atacatatat gtaattatat      120
245 atagtataat tatagtatat atgtatatat aatgtaagta aatatatagt atatatttat      180
247 atatactata tatttataca tatgtcttta tatatactaa tatatataca catatgtaat      240
249 atgtacatat ggcatatatt ttatagtgtg tatatacata tatgtaatat atataagtaat      300
251 atgtaaatat atagtacata ttttaattata tggtaatata tacacatata tgtaatatgt      360
253 gtatttatagt acatatttta tagtat      386
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257 <211> LENGTH: 585
258 <212> TYPE: DNA
259 <213> ORGANISM: Homo sapiens
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264 <222> LOCATION: (1)..(585)
265 <223> OTHER INFORMATION: MAR of human chromosome 1, genomic contig; 4955365 to
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267 <400> SEQUENCE: 8
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272 cacacatata cacatatgta cgtatatata ctatatatac acacatatac acatatgtac      180
274 gtatatatac tatatatata cacatatata catatgtacg tatatattat atatacacac      240
276 atatacacat atgtacgtat atatactata tatacacaca tatacacata tgtacgtata      300
278 tatactatat atacacacat atacacatat gtacgtatat atactatata tacacacata      360
280 tacacatatg tacgtatata tactatatat acacacatat acacatatgt acgtatatat      420
282 actatatata cacacatata cacatatgta cgtatatata ctatatatac acacatatac      480
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291 <212> TYPE: DNA
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295 <220> FEATURE:
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297 <222> LOCATION: (1)..(772)
298 <223> OTHER INFORMATION: MAR of human chromosome 1, genomic contig; 5971862 to
5972633
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303 tatatagtg atatatatag tgtatatata gtaaatatat agtgatatata tatagtaaat      120
305 atatatagtg tatatatagt aaatatatat agtaaataa tatatactat atatagtaaa      180
307 tatatatata ctatatatag taaatatata tatagtatat atatagtaaa tatatatata      240
309 gtatatatat agtaaataa tatatagtat atatatagta aatatatata tagtatatat      300
311 agtaaataa tatagtatat atatagtaaa tatatatata gtatatatat agtaaataa      360
313 tatatagtat atatatagta aatatatata tagtatatat atagtaaata tatatagtat      420
315 atatatagta aatatatata gtatatatat agtaaataa tatagtatat atatagtaaa      480

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317 tatatatata ctgtatatat atagtaaata tatatacact gtatatatat agtaaataata 540
319 tatacactgt atatatatat taaatatata tacactgtat atatatagta aatatatata 600
321 cactgtatat acatagtaaa tatatatata ctgtatatat atagtaaata tatatacact 660
323 gtatatatat agtaaataata tatacactgt atatacatag taaatatata tacagtgtat 720
325 atacatagta aatatatata cagtgtatat acatagtaaa tatatatata gt 772

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328 <210> SEQ ID NO: 10

329 <211> LENGTH: 304

330 <212> TYPE: DNA

331 <213> ORGANISM: Homo sapiens

334 <220> FEATURE:

335 <221> NAME/KEY: misc_binding

336 <222> LOCATION: (1)..(304)

337 <223> OTHER INFORMATION: MAR of human chromosome 1, genomic contig; 6221897 to 6222200

339 <400> SEQUENCE: 10

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340 atatatataa tatataatta tattatatat aatatataat atatatatt atattatata 60
342 ttatatataa tatattatat attatatata taatatatat tatatattaa atatatatta 120
344 tatatatata atatatatta tattaataat atattatata tataatatat attatatata 180
346 atatatataa tatatattat atatatatta tatattatat atatatatta tatatatata 240
348 atatatataa tatatattat atataatata tattatatat atataatata tataatatat 300
350 atta 304

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353 <210> SEQ ID NO: 11

354 <211> LENGTH: 311

355 <212> TYPE: DNA

356 <213> ORGANISM: Homo sapiens

359 <220> FEATURE:

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362 <223> OTHER INFORMATION: MAR of human chromosome 1, genomic contig; 9418531 to 9418841

364 <400> SEQUENCE: 11

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365 tatatatata atttatatat aatattcatg ttttatata taaatattta tatatttata 60
367 tataaatatt tatatattta tatataaata tttatatatt tatatataat atttatatat 120
369 tatatatata atttatatat tatatatata atttatatat aatatttata tattatatat 180
371 aatatttata ttttatatg tataatatat attttatata tgtatgtata atatatattt 240
373 tatatatgta tgtataatat attttatata tgtatgtata atatatatt atatatata 300
375 tataatttat a 311

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381 <213> ORGANISM: Homo sapiens

384 <220> FEATURE:

385 <221> NAME/KEY: misc_binding

386 <222> LOCATION: (1)..(302)

387 <223> OTHER INFORMATION: MAR of human chromosome 1, genomic contig; 15088789 to 15089090

389 <400> SEQUENCE: 12

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390 atataatata tatattatat atataaatat atataaatat ataacatata tattatatat 60
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394 tatatattat atatatataa atatatata atataacata tatattatat atataaatat 180
396 atattatata tttatatata taatatatat aaatatataa tatatattta tatatatata 240
398 atatatataa atataatata tatatttata tataatatat ataaatatat aatatataat 300

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VERIFICATION SUMMARY

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